

**MATERIAL SAFETY DATA SHEET****888-2551 COLORTREND®ORGANIC YELLOW****AXX**

degussa.

|               |        |               |            |
|---------------|--------|---------------|------------|
| Material no.  |        | Version       | 1.3 / US   |
| Specification | 139299 | Revision date | 10/27/2004 |
| Order Number  |        | Print Date    | 1/13/2005  |
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

|   |   |   |     |
|---|---|---|-----|
| Trade name                              | : | 888-2551 COLORTREND®ORGANIC YELLOW  | AXX |
| Use of the Substance / Preparation      | : | Aqueous colorant  |     |
| Company                                 | : | Degussa Corporation<br>379 Interpace Parkway<br>Parsippany, NJ 07054<br>USA |     |
| Telephone                               | : | 973-541-8000  |     |
| Telefax                                 | : | 973-541-8040  |     |
| <b>US: CHEMTREC EMERGENCY NUMBER</b>    | : | 800-424-9300  |     |
| <b>CANADA: CANUTEC EMERGENCY NUMBER</b> | : | 613-996-6666  |     |
| Product Regulatory Services             | : | 973-541-8060  |     |

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

|                                  |              |                    |              |
|----------------------------------|--------------|--------------------|--------------|
| isopropanol                      |              |                    |              |
| CAS-No.                          | 67-63-0      | Percent (Wt./ Wt.) | 0.10 - 1.0 % |
| NJTSR No.56705700001-5071P       |              |                    |              |
| CAS-No.                          | Trade Secret | Percent (Wt./ Wt.) | 1.0 - 5.0 %  |
| ethanediol; ethylene glycol      |              |                    |              |
| CAS-No.                          | 107-21-1     | Percent (Wt./ Wt.) | 10 - 30 %    |
| Diethylene glycol                |              |                    |              |
| CAS-No.                          | 111-46-6     | Percent (Wt./ Wt.) | 5.0 - 10 %   |
| Talc, Magnesium silicate hydrate |              |                    |              |
| CAS-No.                          | 14807-96-6   | Percent (Wt./ Wt.) | 10 - 30 %    |
| NJTSR No.56705700001-5747P       |              |                    |              |
| CAS-No.                          | Trade Secret | Percent (Wt./ Wt.) | 1.0 - 5.0 %  |

**Other information**

This material is classified as hazardous under OSHA regulations.

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### 3. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

**Form-paste**      **Colour-yellow**      **Odour-Glycol odor.**

COLORTREND colorants may cause eye, skin and respiratory tract irritation. May be harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

##### Eye contact

According to test results on COLORTREND base mixtures, this product is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

##### Skin Contact

COLORTREND colorants may cause irritation.

##### Inhalation

COLORTREND colorants may cause irritation.

##### Ingestion

Moderately toxic. May be harmful if swallowed.

Ingestion of ethylene glycol may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, irritability and central nervous system effects. Swallowing large volumes of ethylene glycol causes severe kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal.

The human oral lethal dose is approximately 1.6 g/kg.

Ingestion of excessive amounts of diethylene glycol causes abdominal discomfort or pain, nausea, vomiting, dizziness, central nervous system effects, kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal (estimated human oral lethal dose, 1.0 to 1.2 g/kg) and may cause liver effects.

##### Chronic Health Hazard

Ethylene glycol may aggravate an existing kidney disease. Repeated skin contact with ethylene glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis. The incidence is significantly less than 1% with the undiluted material. Repeated inhalation of ethylene glycol mist may produce signs of central nervous system involvement, particularly dizziness and drowsiness.

Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

In long term dietary studies of the alkyl phosphate (NJTSR No. 56705700001-5071P) in rats, urinary bladder tumors, urinary bladder hyperplasia and increased liver weight were noted. Benign liver tumors, liver enlargement and urinary bladder hyperplasia were observed in long term studies in mice. Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

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**4. FIRST AID MEASURES****Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

**Skin contact**

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

**Eye contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

**Ingestion**

If swallowed give two glasses of water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

In case of fire, use water (flood with water), dry chemical, CO2 or "alcohol" foam.

**Specific hazards during fire fighting**

Contains material that can burn in fire if contained water is evaporated by heat or fire.

**Further information**

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear personal protective equipment; see section 8.

**Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**Methods for cleaning up**

Ventilate area. Absorb spill with inert material and place in a chemical waste container.

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**1.3 / US****10/27/2004****1/13/2005****4 / 10****7. HANDLING AND STORAGE****Handling****Safe handling advice**

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.

**Storage****Requirements for storage areas and containers**

Keep in a dry, cool place.

Keep container closed when not in use.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Occupational exposure controls****• isopropanol**

CAS-No. 67-63-0  
Control parameters 400 ppm  
980 mg/m3  
200 ppm  
400 ppm

PEL:(OSHA Z1)

Time Weighted Average (TWA):(ACGIH)  
Short Term Exposure Limit  
(STEL):(ACGIH)

**• tributyl phosphate**

CAS-No. 126-73-8  
0.2 ppm  
5 mg/m3

Time Weighted Average (TWA):(ACGIH)  
PEL:(OSHA Z1)

**• ethanediol; ethylene glycol**

CAS-No. 107-21-1  
100 mg/m3  
Aerosol.

Ceiling Limit Value:(ACGIH)

**• Talc, Magnesium silicate hydrate**

CAS-No. 14807-96-6  
2 mg/m3  
Respirable fraction.  
The value is for particulate matter containing no asbestos and <1% crystalline silica.  
5 mg/m3  
Respirable fraction.

Time Weighted Average (TWA):(ACGIH)

PEL:(OSHA Z1)

15 mg/m3  
Total dust.

PEL:(OSHA Z1)

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**Other information**

The exposure value for ethylene glycol is given as an aerosol.

The AIHA WEEL for diethylene glycol is 50 PPM for total vapor and aerosol and 10 mg/m<sup>3</sup> for aerosol alone (eight hour time-weighted averages).

The OSHA TWA and ACGIH TWA exposure values for talc are for asbestos free talc expressed as millions of particles per cubic foot (mppcf).

**Engineering measures**

Use only in well-ventilated areas.

**Personal protective equipment****Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hand protection**

Use impermeable gloves.

**Eye protection**

Chemical resistant goggles must be worn.

**Skin and body protection**

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

|        |              |
|--------|--------------|
| Form   | paste        |
| Colour | yellow       |
| Odour  | Glycol odor. |

**Safety data**

|                             |                                   |
|-----------------------------|-----------------------------------|
| pH                          | 8.0 - 9.0                         |
| Boiling point/range         | > 100 °C                          |
| Relative density            | 1.4                               |
| Solubility/qualitative      | Solubility in water: Dispersible. |
| Viscosity, dynamic          | 70 - 85 KU (25 °C)                |
| Solvents and Volatiles Data | % VOC (gm/l) 612.94               |
| Evaporation rate            | Slower than butyl acetate         |

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**10. STABILITY AND REACTIVITY**

|                     |                                    |
|---------------------|------------------------------------|
| Conditions to avoid | Not applicable.                    |
| Materials to avoid  | strong acids, oxidizing substances |

**11. TOXICOLOGICAL INFORMATION**

|           |                     |   |
|-----------|---------------------|---|
| Component | Acute oral toxicity | isopropanol<br>67-63-0<br>LD50 rat: 5045 mg/kg<br><br>NJTSR No.56705700001-5071P<br>Trade Secret<br>LD50 rat: 1200 mg/kg<br><br>ethanediol; ethylene glycol<br>107-21-1<br>LD50 rat: 4000 mg/kg<br><br>Diethylene glycol<br>111-46-6<br>LD50 rat: 20760 mg/kg<br><br>NJTSR No.56705700001-5747P<br>Trade Secret<br>LD50 rat: > 2000 mg/kg |
|-----------|---------------------|---|

|           |                           |   |
|-----------|---------------------------|---|
| Component | Acute inhalation toxicity | NJTSR No.56705700001-5071P<br>Trade Secret<br>LC50 rat: > 20 mg/l / 1 h |
|-----------|---------------------------|---|

|           |                       |  |
|-----------|-----------------------|--|
| Component | Acute dermal toxicity | isopropanol<br>67-63-0<br>LD50 Rabbit: 13000 mg/kg<br><br>NJTSR No.56705700001-5071P<br>Trade Secret<br>LD50 Rabbit: > 10000 mg/kg<br><br>ethanediol; ethylene glycol<br>107-21-1<br>LD50 Rabbit: 10500 mg/kg<br><br>Diethylene glycol<br>111-46-6<br>LD50 Rabbit: 13300 mg/kg |
|-----------|-----------------------|--|

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Component Repeated dose  
toxicity

Talc, Magnesium silicate hydrate  
14807-96-6  
Inhalation rat(male)  
Testing period: 791 d  
LOAEL: 0.006 mg/l  
target organ/effect: Lungs

Component carcinogenicity  
assessment

Talc, Magnesium silicate hydrate  
14807-96-6  
Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

Product General Toxicity  
Information

According to long-term animal inhalation studies, very high concentrations of diethylene glycol vapors caused central nervous system effects in mice and rats. However, an extensive review of the literature shows that no such effects have been documented in humans (Patty's Industrial Hygiene and Toxicology, 1982, Third Revised Ed., Vol 2c, p 3838). Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses. However, there is no available information to suggest that ethylene glycol has caused birth defects in humans. In a continuous breeding study of mice, continued ingestion of large amounts of diethylene glycol (6 g/kg/day) caused an adverse effect on fertility and some embryotoxic and fetotoxic effects concurrent with some maternal toxicity. The relevance of these very high doses to humans is uncertain.

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**12. ECOLOGICAL INFORMATION**

General Ecological Information      No ecotoxicological studies are available.

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**13. DISPOSAL CONSIDERATIONS****WASTE**

Advice on disposal

Waste must be disposed of in accordance with federal, state, provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash. Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of

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plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with water until the containers are considered generally product free.

**14. TRANSPORT INFORMATION****Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION****Information on ingredients / Non-hazardous components**

This product contains the following non-hazardous components

Water

CAS-No. 7732-18-5

Percent (Wt./ Wt.)

10 - 30 %

NJTSR No.56705700001-5578P

CAS-No. Trade Secret

Percent (Wt./ Wt.)

10 - 30 %

NJTSR No. 31765300002-5572P

CAS-No.

Percent (Wt./ Wt.)

1.0 - 5.0 %

NJTSR No.56705700001-5653P

CAS-No. Trade Secret

Percent (Wt./ Wt.)

5.0 - 10 %

**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None Listed

**Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- ethanediol; ethylene glycol  
CAS-No. 107-21-1

**CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- ethanediol; ethylene glycol  
CAS-No. 107-21-1  
Reportable Quantity 17655 lbs

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**1.3 / US****10/27/2004****1/13/2005****9 / 10****SARA Title III Section 311/312 Hazard Categories**

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard

**SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- ethanediol; ethylene glycol  
CAS-No. 107-21-1

**Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None Listed

**State Regulations****California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

- None Listed

**International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact Degussa Corporation Product Regulatory Department:

- |                          |                           |
|--------------------------|---------------------------|
| • Europe (EINECS/ELINCS) | Listed/registered         |
| • USA (TSCA)             | Listed/registered         |
| • Canada (DSL)           | Not listed/Not registered |
| • Australia (AICS)       | Not listed/Not registered |
| • Japan (MITI)           | Not listed/Not registered |
| • Korea (TCCL)           | Not listed/Not registered |
| • Philippines (PICCS)    | Not listed/Not registered |
| • China                  | Not listed/Not registered |

**16. OTHER INFORMATION****HMIS Ratings**

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|                   |   |
|-------------------|---|
| Health :          | 2 |
| Flammability :    | 1 |
| Physical Hazard : | 0 |

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.